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DIALOG(R)File 351:Derwent WPI

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011752239 **Image available**

WPI Acc No: 1998-169149/199815

XRAM Acc No: C98-054253

**Telomerase protein of higher animals and humans and gene encoding it -
for use in diagnosis of cancer, screening of telomerase inhibitors and
elucidation of biological control mechanisms**

Patent Assignee: MITSUBISHI CHEM CORP (MITU)

Inventor: FUJINO Y; HARADA N; ISHIKAWA F; NAKAMURA H; TAKAHASHI K

Number of Countries: 020 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9807838	A1	19980226	WO 97JP2904	A	19970821	199815 B
JP 10510587	X	19990921	WO 97JP2904	A	19970821	199950
			JP 98510587	A	19970821	

Priority Applications (No Type Date): JP 9731807 A 19970217; JP 96219761 A
19960821; JP 9718878 A 19970131

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9807838 A1 J 106 C12N-009/12

Designated States (National): CA JP US

Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LU MC

NL PT SE

JP 10510587 X C12N-009/12 Based on patent WO 9807838

Abstract (Basic): WO 9807838 A

Polypeptide which forms a protein component of telomerase of higher animals (sequence of rat and human derived polypeptides are given in the specification) and polypeptides derived from it by addition, deletion and/or substitution of at least 1 amino acid residue, are new.

Also claimed are:

(1) DNA or RNA coding for the polypeptide;

(2) vectors containing the DNA;

(3) transformant hosts containing the vector;

(4) the preparation of the polypeptide by culture of the transformant, and

(5) antibodies recognising the polypeptide or fragments of it.

USE - DNA or RNA coding for the polypeptide or its fragments can be used as a nucleotide probe for the detection of cancer cells and for diagnosis of cancer.

Potential telomerase inhibitors can be screened by measuring their effect on the assay of the active form in cells or tissues. The polypeptide and DNA coding for it can be used in the elucidation of biological control mechanisms of, e.g. cell growth or ageing and of the mechanisms of cancer development.

Dwg.1/4

Title Terms: PROTEIN; HIGH; ANIMAL; HUMAN; GENE; ENCODE; DIAGNOSE; CANCER;
SCREEN; INHIBIT; BIOLOGICAL; CONTROL; MECHANISM

Derwent Class: B04; D16

International Patent Class (Main): C12N-009/12

International Patent Class (Additional): C12N-015/54; C12Q-001/48

File Segment: CPI

Manual Codes (CPI/A-N): B04-E02E; B04-E03E; B04-E08; B04-F0100E; B04-G03;

B04-L01; B04-L0100E; B12-K04A1; B12-K04E; D05-A02; D05-H09; D05-H11A;

D05-H12A; D05-H12D1; D05-H12E; D05-H14B; D05-H16A; D05-H17A5

Chemical Fragment Codes (M1):

01 M423 M710 M903 Q233 V752 V802 V812

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012275170

WPI Acc No: 1999-081276/199907

XRAM Acc No: C99-024522

New catalytically active subunit of human telomerase - used in the modulation of telomerase activity, particularly for treating cancer and ageing

Patent Assignee: BAYER AG (FARB)

Inventor: HAGEN G; SIEGMUND H; WEICHEL W; WICK M; ZUBOV D

Number of Countries: 083 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9859040	A2	19981230	WO 98EP3468	A	19980609	199907 B
AU 9882149	A	19990104	AU 9882149	A	19980609	199921
DE 19816496	A1	19991021	DE 1016496	A	19980414	199950
EP 990037	A2	20000405	EP 98932142	A	19980609	200021
			WO 98EP3468	A	19980609	

Priority Applications (No Type Date): DE 1016496 A 19980414; DE 1026329 A 19970620; DE 1013274 A 19980326

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9859040 A2 G 76 C12N-009/00

Designated States (National): AL AM AT AU AZ BA BE BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US VZ VN YU ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

EP 990037 A2 G C12N-015/54 Based on patent WO 9859040

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

AU 9882149 A C12N-009/00 Based on patent WO 9859040
DE 19816496 A1 C12N-009/12

Abstract (Basic): WO 9859040 A

Catalytically active human telomerase subunit (I), its functional equivalents, variants and catalytically active fragments are new. Also new are: (1) nucleic acid (II) encoding (I) and its functional equivalents; (2) antisense nucleic acid (IIa) that binds to (II); (3) antibodies (Ab) against (I), optionally labelled; (4) vectors containing (II); and (5) microorganisms containing this vector.

USE - Hosts of (5) are used to produce recombinant (I) which is used: (a) in screening assays to identify modulators of telomerase; and (b) to treat or inhibit cellular disorders, death, defects and/or other pathological processes involving telomerase, particularly cancer and ageing (also suitable for this are agents that stimulate, inhibit or mimic the activity of (I)). (IIa) inhibit telomerase action (by binding to specific mRNA), particularly in neoplastic cells and may be expressed in vivo. Ab, and fragments of (II), used as probes or primers, are used to diagnose telomerase-related conditions (especially neoplasia) by: (i) detecting abnormal levels of (I) in body fluids or tissues; or (ii) by measuring the amount of (I)-encoding nucleic acid.

ADVANTAGE - Expression of (I)-related mRNA is confined to tumour cells, in contrast to the ubiquitous expression of the telomerase RNA subunit.

Dwg.0/9

Title Terms: NEW; CATALYST; ACTIVE; HUMAN; MODULATE; ACTIVE; TREAT; CANCER; AGE

Derwent Class: B04; D16

International Patent Class (Main): C12N-009/00; C12N-009/12; C12N-015/54

International Patent Class (Additional): A61K-031/70; A61K-038/45; A61K-039/395; C07H-021/04; C07K-016/40; C12N-001/00; C12N-015/11; C12N-015/63; C12Q-001/48; C12Q-001/68; G01N-033/573

File Segment: CPI

Manual Codes (CPI/A-N): B04-E01; B04-E08; B04-F10; B04-G01; B04-L08; B11-C07A; B12-K04; D05-H09; D05-H11; D05-H12A; D05-H12D1; D05-H12D2; D05-H12D4; D05-H12E; D05-H14A1; D05-H14A2; D05-H14B; D05-H16A; D05-H17A3

Chemical Fragment Codes (M1):

01 M423 M710 M903 N134 N135 P633 Q233 V500 V540 V600 V611 V753 V802 V810